

Hey Kids! Time for a super fun math lesson, courtesy of Math Madness!

## - EXPONENTS

Powers of 10 are often written as exponents. For example, the value 1000 is equal to  $10\times10\times10$ . This can also be written as  $10^3$ . The three to the upper right of the number is called an exponent. It means "this number multiplied by itself three times."

Values less than 1 can also be written as exponents. In this case, we put a – sign before the exponent. For example, the value  $1/1000 = 1/10 \times 1/10 \times 1/10$ . This can also be written as  $10^{-3}$ .

Finally, any number to the power of zero is always equal to 1.

 $1000 = 10 \times 10 \times 10 = 10^{3}$   $100 = 10 \times 10 = 10^{2}$  $.001 = \frac{1}{1000} = \frac{1}{10 \times 10 \times 10} = 10^{-3}$ 

## - TRY IT: CONVERTING TO EXPONENTS! -

Convert each value from decimal notation to a power of 10 using exponents

.01=	10 =	.001 =	10,000 =
1=	.00001 =	1,000,000 =	.1=

## - TRY IT: CONVERTING FROM EXPONENTS! ----

Convert each exponent to decimal notation





